

METHOD AND ARRANGEMENT FOR INTERPRETING A SUBJECTS HEAD AND EYE ACTIVITY

Abstract

Method for analyzing ocular and/or head orientation characteristics of a subject. A detection and quantification of the position of a driver's head and/or eye movements are made relative to the environment. Tests of the data are made, and from the data, locations of experienced areas/objects-of-subject-interest are deduced. When a driver of a vehicle is the subject, these areas/objects-of-driver-interest may be inside or outside the vehicle, and may be constituted by (1) "things" such as audio controls, speedometers and other gauges, and (2) areas or positions such as "road ahead" and lane-change clearance space in adjacent lanes. In order to "standardize" the tracking data with respect to the vehicle of interest, the quantification of the position of the driver's head is normalized to the reference-base position thereby enabling deducement of location(s) where the driver has shown an interest based on sensed information regarding either, or both of (1) driver ocular orientation or (2) driver head orientation.